

From owner-qrp-1@lehigh.edu Wed Apr 17 23:11:49 1996
From: WJ4PRandy@aol.com
Subject: [7266] "Mandatory" OHR400 Mod!!
Message-ID: <960417150251_472058750@emout19.mail.aol.com>

Hi Folks,

If you own an OHR400 and havent done the
the mod to fix the chirp/click problem...
you should!! The problem manifests itself
when your RIT is off center and you are
transmitting. The fix is very simple and
can be done without removing the board.

The mod: R131 on the oscillator board is
factory stock as a 100K ohm resistor. The
change is to add a 1 MEG ohm resistor
in series with R131. Just clip R131 at the top
and tack solder in the 1Meg resistor.

What could be easier?!

73, Randy WJ4P

From owner-qrp-1@lehigh.edu Wed Apr 17 23:11:49 1996
From: John Mckee <jmckee@rfmd.com>
Subject: [7244] 17 meters
Message-ID: <199604171339.JAA02266@mh004.infi.net>

Gang,

Has anyone out there operated QRP, either cw or ssb, on 17 meters?
Please email your comments to:
jmckee@rfmd.com

tnx es 72

John WB40FT

From owner-qrp-1@lehigh.edu Wed Apr 17 23:11:49 1996
From: gary-r-hanson@uiowa.edu (Gary R. Hanson)
Subject: [7255] 40-9er Mods
Message-ID: <v02130508ad9ac2b4a9ba@[128.255.164.50]>

Hey Gang,

If you haven't tried the 40-9er mods yet you are missing a great deal. I made the mods to improve the receiver last night and boy does it make a difference. I added the 180pf cap and did the audio feedback mod. The broadcast band feed through is gone and the improved audio is amazing. No S-meter, but it has to be at least twice the strength as previously.

Tonight, I am going to re-do the transmitter mods. It seems that my adding the 1k resistor components on the bottom side of the circuit board forced me to raise the level of the board in the case. When I put the board back in that little black box, it worked fine until I put the top cover back on. I shorted something out and I absolutely fried the RFC4 choke. I even put black electrical tape on the bottom of the case as a precaution, but raising the board evidently caused my keyer switch to short against the top of the PA transistor (not sure). The results was LOTS of grey smoke coming out of the case. Well, I really had intended to add that torroid choke in place of RFC4 anyway. Now, I have to do it.

Incidentally, I swapped a new Mouser polyfilm variable cap for my old army surplus version. Takes less space and the turning mechanism is much smoother. It also shifted my frequency back down to 7038 to 7042. That old surplus cap didn't have quite enough capacitance to take me below 7040.

I'll add a sound clip to my web page so you can hear the new improved version of the 40-9er...if the band conditions ever improve.

Cheers,

KJ5VW

Gary R. Hanson

From owner-qrp-1@lehigh.edu Wed Apr 17 23:11:49 1996
From: Larry East <LVE1@inel.gov>
Subject: [7253] 40-9er Sidetone Generator
Message-ID: <2.2.16.19960417145048.25bff03a@134.20.32.17>

Want a simple sidetone circuit? Ever heard of a unijunction transistor? No? Well, look it up in your ARRL handbook. Also look at the current (I believe) issue of 73 and you'll see a QRP rig described using a unijunction transistor relaxation oscillator as a sidetone generator. About as simple as you can get -- if you don't mind a sawtooth instead of a sine wave output.

(I may build one [sidetone generator] myself one of these days, but I've told myself that I gotta quit playing with my 40-9er and get on with my life!)

72, Larry W1HUE/7

From owner-qrp-1@lehigh.edu Wed Apr 17 23:11:49 1996
From: Jerry Parker <jparker@fix.net>
Subject: [7264] 49er Mods
Message-ID: <199604171823.LAA25131@fletch.fix.net>

If you wish to keep abreast of the 49er mods and much much more, subscribe to QRPp, the NorCal

Magazine. It is very inexpensive and is a literal treasure chest of QRP info.

73'es, Jerry...WA6OWR...K

>Date: Tue, 16 Apr 1996 21:22:55 -0400
>Reply-To: TGordish@aol.com
>Sender: owner-qrp-1@Lehigh.EDU
>From: TGordish@aol.com
>To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
>X-To: unlisted-recipients;; (no To-header on input)
>X-Listprocessor-Version: 7.2 -- ListProcessor by CREN
>
>ya'll know that I will be unsubscribing at this
>time. I will however be watching for QRP bulletins on packet, and maybe
>posting a few myself. I would like to keep abreast of major happenings on
>this list. Could someone please put out a packet bulletin every now and then
>when new stuff comes up, e.g. the 49-er, contests, etc.
>
>72
>de KB9LGJ
>Tim
>
>NorCal ARRL IDEA
>
>
>
>

From owner-qrp-1@lehigh.edu Wed Apr 17 23:11:49 1996
From: "Brian.Buydens@usask.ca" <buydens@duke.usask.ca>
Subject: [7274] Active Tuners
Message-ID: <Pine.OSF.3.91.960417164043.27669A-100000@duke.usask.ca>

I was reading some information on active filters, and on variactor diodes and I started wondering if some of the same ideas could be used to create an active tuner. My idea is that the tuner could compare the forward and reflected voltages and change the capacitance of the variactor diode. Is there an equivalent to the variactor for inductance?

One scheme I thought of for varying the inductance would be to have several inductors in series and use diode switching to select combinations. Then the variactor could be used for fine tuning.

At this point I should admit that I had a fever this weekend and spent my time lying in bed reading the RAC study guide for the advanced qualification. Perhaps I am dreaming in technicolour regarding the tuner? I am interested in getting comments from more experienced builders.

```
+-----+
| Brian Buydens, Computing Services, University of Saskatchewan |
| email: Brian.Buydens@usask.ca |
| VE5RDV |
+-----+
| Albert Einstein, when asked to describe radio, replied: "You see, wire |
| telegraph is a kind of a very, very long cat. You pull his tail in New |
| York and his head is meowing in Los Angeles. Do you understand this? |
| And radio operates exactly the same way: you send signals here, they |
| receive them there. The only difference is that there is no cat." |
+-----+
```

From owner-qrp-1@lehigh.edu Wed Apr 17 23:11:49 1996
From: PAT DOYLE <DOYLEPS@LAKEHURST.NAVY.MIL>
Subject: [7257] Autec SWR Analyzer
Message-ID: <s174e9c6.012@LAKEHURST.NAVY.MIL>

In the not too distant past, there was a discussion going on about the Autek Analyzer. At that point, I had not used anything of the sort and didn't pay lots of attention to the discussion.

Since then, I have used a borrowed MFJ 259. I

like it and think I may want one for myself.
However, the 259 is kind of big and more expensive
than the Autek, as advertised in QST.

If there are there any Autek owners interested in
providing opinions, I am interested in hearing
them.

From owner-qrp-1@lehigh.edu Wed Apr 17 23:11:49 1996
From: Clark Fishman (FSAC) <cfishman@fsac3.pica.army.mil>
Subject: [7243] Cascade Mistake
Message-ID: <9604170748.aa24944@FSAC3.PICA.ARMY.MIL>

Is there a mistake in the PC board layout in the base circuit
of the final transistor???? looks like it to me

Clark Fishman WA2UNN cfishman@pica.army.mil

From owner-qrp-1@lehigh.edu Wed Apr 17 23:11:49 1996
From: JayMiller@aol.com
Subject: [7237] Collins Historian-KK5IM
Message-ID: <960416232928_471624463@emout10.mail.aol.com>

Dear Fellow QRP Enthusists,

After about the umpteenth email, asking "Are You the Jay Miller that had
published the book, on the history of Collins Radio ?" No, that's KK5IM, Jay
(John) Miller, I am the other Jay Miller W A 5 W H N. He is the tall Texan
(sorry Chuck-K5F0), I am across the border (west). So, please don't send me
email asking how to purchase my book about Collins Radio. I could not afford
a Collins Radio, even in it's hey day. I wonder if KK5IM is sometimes asked,
are You the Cheap Jay Miller from New Mexico ? ;-) Please Guys, I don't
have any book in Publication.

The Other Jay Miller, WA5WHN

PS Will be in the Ghost Town of Riley, NM, April 27th signing my (Ghost
Writer) new book "Phantom of the Operators" ;-) Sorry Guys, I could not
resist.

From owner-qrp-1@lehigh.edu Wed Apr 17 23:11:49 1996
From: mvjfm@mvubr.att.com (James M Fitton +1 508 960 2577)
Subject: [7280] Dayton room available
Message-ID: <9604180241.AA20061@ig4.att.att.com>

My roommate and I unknowingly both booked rooms at the
QRP-Hotel at Dayton.

A room reservation is available in my name if anyone can use it.

Let me know.

Jim Fitton W1FMR

From owner-qrp-1@lehigh.edu Wed Apr 17 23:11:49 1996
From: Brad Mugleston <bmug@gwl.com>
Subject: [7250] Florida & Maryland
Message-ID: <199604171350.AA04716@gp-ipc54.gwl.com>

Gang,

I will be taking a little trip next week and was wondering if there was anything
going on that I might be able to attend or see. Right now my time looks shot
but just in case there is a break Id like to be prepared.

I will arrive in Tampa at 4:00pm Sunday April 21 and be at the Embassy Suites on
North Westshore Blvd. I will be leaving there around 5:00 pm Monday and arrive
in Calverton, MD around 8:00 pm - Holiday Inn Power Mill Road - again another
short stay I leave to come back to Denver at 6:30 pm Tuesday.

Like I said, not much time but Id hate to be right next door to the greatest
parts place in the world and miss out.

de KB0ROL, Brad

From owner-qrp-1@lehigh.edu Wed Apr 17 23:11:49 1996
From: Joel Malman <malman@bbnplanet.com>
Subject: [7277] For Sale: QRP+
Message-ID: <9604171939.aa15197@poblano.bbnplanet.com>

For Sale: QRP+ (Serial Number 1255)

- . Late factory model (10/95).
- . Includes last factory firmware upgrade.
- . Mint condition.
- . Unmodified.
- . Only one owner.
- . Includes Index Lab MIC and manual.
- . Shipped in original box.
- . Still under warranty.

Price: \$425. Includes shipping to USA address.

For info, please contact:

Joel Malman WA1QVM
617-873-3299, Daytime, 7am-4pm EDST
EMAIL: malman@bbn.com or malman@bbnplanet.com

From owner-qrp-1@lehigh.edu Wed Apr 17 23:11:49 1996
From: "A. Keith Williams" <ki4ja@america.net>
Subject: [7263] FS: Argo 556
Message-ID: <199604171809.0AA04962@atl1.america.net>

Hello all,

I have a Ten Tec Argo 556 for sale.

- ~ 40,30,20,17,15 meter modules
- ~ Factory installed noise blanker
- ~ Factory hand mic

\$475.00 plus \$10.00 shipping and insurance

It appears I have too many radios all of a sudden.

73....Keith/ki4ja

From owner-qrp-1@lehigh.edu Wed Apr 17 23:11:49 1996
From: Fred Moore <fmoor@magicnet.net>
Subject: [7241] FS: ARGONAUT 509, with accessories
Message-ID: <199604170933.FAA12366@magicnet.magicnet.net>

All of this goes together (one package). Its time to have one less rig around the shack.

Argonaut 509 Serial number 509-4155 Rig is in very good condition Left side panel has a mark where some tape was on it from a previous owner, I understand a new one can be obtained from Ten Tec for \$6.95. I know of no operating deficiencies (works great). This rig does not have the optional Ten Tec audio CW filter but does have an active filter built into a small circuit board (home brewed) that plugs into the back. The board has a small switch on it to switch it on and off. I also have a manual, and a Radio Shack mic that is prewired, and goes with the rig.

Model 206A Crystal Calibrator in very good condition

Model 210 power supply top of case has some paint chipped off but functions very well

Price 350.00 for all. I'll pay UPS shipping, Certified Funds in advance, or UPS COD your choice.

Fred Moore (WD8KNI) Orlando, Florida
Daytime (800) 432-0488 or (407) 678-7233
Evenings (407) 851-7490

Fred Moore

-----BEGIN PGP PUBLIC KEY BLOCK-----
Version: 2.6.2

mQBtAzFu/4AAAAEDAMVACaFsNQKJxqj6+CkHC89F4JJ6KKHo2JDU+fy4H/U6wkPM
pf+T+jscWiiD1jYyDAYjOg4WoUFsews3um65TQmYuyimWuv8w9BD6YXR4s6nxFS
W9IuoJw9+J1DC4/OGQAFF7QfRnJlZCBNb29yZSA8Zm1vb3JAbWFnaWNuZXQubmV0
Pg==
=byih
-----END PGP PUBLIC KEY BLOCK-----

From owner-qrp-l@lehigh.edu Wed Apr 17 23:11:49 1996
From: gary-r-hanson@uiowa.edu (Gary R. Hanson)
Subject: [7272] Humming along...albeit red-faced
Message-ID: <v0213050aad9b0c0ae3bf@[128.255.164.50]>

Larry and QRP-L gang,

Guess I just shouldn't do mods after mid-night. As I read your reply, it dawned on me that you assumed I would know enough to make the bypass cap an electrolytic (+/-) one. Late at night, not thinking about what I was supposed to accomplish, I just grabbed the nearest ceramic cap and soldered it in. Once you mentioned the 220uF bypass on the V+ and the 4.7 value I got to thinking, "Gee, I think they only make the 4.7 value in electrolytic caps, hmmm. I could feel the red flush hitting my face shortly thereafter. Just goes to prove that a soldering gun in the hands of a psychologist can be a dangerous thing. An engineer, I am not.

O.K. I'll go home tonight and put in a 10uF electrolytic cap and I bet it works, huh? Boy, do I feel dumb, but I never fail to amaze myself on the "creative" mistakes I can make when tired and doing things on "auto-pilot". I apologize for the bandwidth, but I did learn that in addition to stupidity, ground loops could have been part of the problem, though clearly they are the lesser evil!!! Hi :)

Thanks again,

KJ5VW

Gary R. Hanson

From owner-qrp-l@lehigh.edu Wed Apr 17 23:11:49 1996
From: robert fowle <hammarlund@voyager.net>
Subject: [7261] Manuals for Trade
Message-ID: <199604171759.NAA29480@vixa.voyager.net>

The following is a list of new and clean used original manuals
I will trade for manuals on Amateur gear, i.e. National, Hallicrafters
EF Johnson, and all the rest of the BA type, but will also trade for
the Newer Sand unit manuals as well.

ORIGINAL UNUSED MANUALS FOR TRADE ONLY
QTY DESCRIPTION

ORIGINAL HALLICRAFTERS MANUALS

3 HA-4
1 WR-600W
2 S-29
4 S-36
2 S-36A=7F
4 S-39
2 SP-44
4 SR-150
5 SR-400=09

ORIGINAL HAMMARLUND MANUALS

8 HQ-100
23 HQ-145-A
17 HXL ONE AMP (1.5KW)
20 HX 50
33 HX-500

THE FOLLOWING ARE MANUALS FOR TRADE ONLY
THESE ARE ORIGINAL MANUALS, UNLESS NOTED 'COPY'
SOME ARE IN NEW CONDITION & SOME ARE CLEAN USED.
ONLY HAVE "ONE" EACH ON THESE.

ALLIANCE TENNA-ROTOR SERVICE MANUAL =09
AEROTRON 600TT 25 COPY =09
AMCOMM BSM15/BSM15C =09
ALPHA SS-80H COPY =09
BC-603 (SCHEMATIC ONLY) =09
B&K 160 =09
176 =09
177 =09
465 =09
700 =09
CARL CORDOVER CPO-4 =09
CESCO DUAL FYRE BEAM =09
DUMONT 5890-C FREQ. METER =09
5890-B FREQ. METER =09
T-301-RT/T-301-RTA =09
T-101-RT =09
MCA-366-A =09
ADDENDUM TO MAN. 6703 3401/6703-5231=09
ADDENDUM TO MAN. 6703 2971 =09
5819-A TEST METER =09
T-403-RT =09
M-430-RT =09

	TYPE 274 OSCILISCOPE	=09	
	401-R OSCILISCOPE	=09	
	304-A OSCILLOGRAPH	=09	
DYCOM	TEN-0	=09	
EICO 330	ASSEMBLY	=09	
EICO 330	OPERATION	=09	
EICO 324	ASSEMBLY	=09	
EICO 324	OPERATION	=09	
	HVP-2 HIGH VOLTAGE PROBE	=09	
ELECTRA	BEARCAT 3 BC3-L,H,U,L/H,L/U,H/U	=09	
	BCL=3DBCH-BCU SERIES 2	=09	
EMC 212	TRANSISTOR CHECKER	=09	
EMC 206	TUBE TESTER	=09	
FEDERAL	TEN-TEN	=09	
FERRIS 22A	SIGNAL GENERATOR	=09	
G. E.	SIG.GEN. YGS-3	=09	
G.E. BT-1-B/ 4BT1B1	250 WATT FM XMITTER	=09	
HICKOCK 195B		=09	
HICKOCK 665		=09	
HARVEYWELLS	AIRCRAFT ATR-3-6/ATR-3-12		
	/APS-1-6/APS-1-12		
	=09		
INTERNATIONAL	FM-2400-C	=09	
INTERNATIONAL	RADIO 36-360	=09	
INTERNATIONAL	RADIO 1934 KADETTE	=09	
JACKSON	CRO-2	=09	
MILITARY			
	=09		
	TM-11-2241 FREQ. SHIFT CONVERTER	=09	
	TM-11-300L FREQ. METERS- SCR-211K, SCR-211L		
	NAVSHIPS 900,013 TIMING CIRCUITS		
	RADAR (MIT)	=09	
	TM-11-2241	=09	
	TM-11-5820-498-12	=09	
	TM-11-5820-401-10-1	=09	
	EE-150-JA-OP1-010-E154	=09	
	TO-31R2-2VRC-191	=09	
	SPOKANE RADIO TYPE SPF MODEL AF	=09	
	COLLINS 51X1A	=09	
	COLLINS 951A-1	=09	
	LM-7		=09
	MN-5		=09
	TYPE CRR-74028 HEDTRODYNE FREQ. METER	=09	
	NAVY CMX-50128A	=09	
	TM-11-666 ANTENNAS & PROPAGATION (225PGS)	=09	
MOTOROLA	HT SERIES	=09	
	OPTIMA 16		=09
PAGEBOY	148-174 MC	=09	

E-mail at: hammarlund@vixa.voyager.net

HAMMARLUND LITERETURE WANTED

WANTED: MANUALS FOR ANY MAKE RADIO EQUIPMENT

[illegible]

From owner-grp-1@lehigh.edu Wed Apr 17 23:11:49 1996

From: plquick@facstaff.wisc.edu (Paulette Quick, N90UH)

Subject: [7238] More FDIM Participants

Message-ID: <v02110101ad99f5f4b83c@[144.92.104.148]>

Here are another list of participants for the Four Days In May (c) at the Dayton Hamvention.

Please contact me with corrections.

Also, many, many apologies to folks who have sent me individual e-mail but have not yet received a response. I've been a bit under the weather lately but finally went to the doctor and got on an antibiotic that seems to be conquering a most vexing respiratory infection. Whew, just in time, too. Dayton is but a month away!

Paulette Quick, N90UH

plquick@facstaff.wisc.edu

Alfred Moyle, Jr., N3KFL

Bill Stietenroth, K5ZTY

Ralph Irons, AA6UL

Bill Jones, KD7S

Buck Switzer, N8CQA

George Gingell, Jr., K3TKS

Ernest Antczak, NC8N

Pete Meier, WK8S

Monte Midkiff, N7TAU

Dan Winkler, N7IVR

Hank Kohl, K8DD
Frank Forsyth, AA8VN

Jim Fitton, W1FMR

Jeffrey Nelson, N2YVF

Michael Czuhajewski, WA8MCQ

Jim Stafford, W4QO

David Feldman, WB0GAZ

Ronald Doyle, N8VAR

Serge Bertuzzo, VA3SB

Ralph Butler, K6ZAN

Will Perry, WA6LDQ

Richard Richmond, N4AFX

Larry Jones, N50SG

Marvin Mitsuo Tanaka

Martin Lynch, KA1LXG

Albert Rea, W8LRM

From owner-qrp-1@lehigh.edu Wed Apr 17 23:11:49 1996
From: Scott Rosenfeld NF3I <ham@w3eax.umd.edu>
Subject: [7278] My sister's callsign! YIKES!
Message-ID: <Pine.3.89.9604171925.A9671-0100000@w3eax.umd.edu>

Is Paul, WB8ZJL in danger of losing his "ugliest callsign" status????

My sister in Arizona just KC7QLZ! Hmmm, on second thought, I guess Paul keeps the title :)

Her husband got KC7QME, which I think is pretty nice.

* Scott Rosenfeld NF3I Burtonsville, MD FM19 QRV 80-10/6/2/440 *
*** VHF @ <25w, HF @ <5w *** Save a cake, pound BRASS instead ***
* 138 cfd with dipoles * QRP-L #147 QRP ARCI #9054 DXCC/WAS/WAC *
* 301-549-1022 h / 301-982-1015 w * 145.490- 147.225+ PL 156.7 *

From owner-qrp-l@lehigh.edu Wed Apr 17 23:11:49 1996
From: Phil Polizzo <philp@cyberlynk.com>
Subject: [7240] need help with test equip.
Message-ID: <3174B507.269@cyberlynk.com>

Hello to all,
Well, sad to say, but time is catching up with me. It has been some time since I was in school, and have used all the various test equipment. And at work, now-a-days the age of ATE and BITE (Automatic Test Equipment and Built In Test Equipment) has taken me far from the good old scope and others.

what I am looking for is a refrence book that will go into detail on using test equipment. So if someone could point me in the right direction, it would be appreciated..

72 de Phil AC6LS

From owner-qrp-l@lehigh.edu Wed Apr 17 23:11:49 1996
From: Jerry Parker <jparker@fix.net>
Subject: [7265] NorCal Page
Message-ID: <199604171845.LAA26645@fletch.fix.net>

Hi,

The NorCal Page address is: <http://www.fix.net/norcal.html>

-or-

<http://www.fix.net/~jparker/norcal.html>

The pages are best viewed with netscape, even though most other browsers will work ok.

Enjoy,,,Jerry...WA6OWR...K

From owner-qrp-1@lehigh.edu Wed Apr 17 23:11:49 1996
From: WJ4PRandy@aol.com
Subject: [7267] OHR400 Front panel power control
Message-ID: <960417150254_472058778@emout10.mail.aol.com>

Hi gang,

The continuing chapter in the never ending saga
of the OHR400 mods from this QTH....

As you may know, since I installed the digital dial on the front of my '400 I now have enough lights on the front of my '400 to know that the power is on. So, I thought it redundant to have a "power light" as well. This led to the thought of having a power output control on the front of the '400 in that hole (it IS lablled "power!"), since I have to change the power out when I change bands.

The mod: Let me direct you to an area on the T/R board, specifically the pre-driver Q302. In the emitter circuit there are two resistors in series. One of them, an 82 ohm resistor (R319) is bypassed. This bypassing should allow this resistor to be just about any where inside the radio, like the front panel. (I assumed that controlling the current through this stage would control the power out of it.) To resistor R319 can be added a 10K pot set up as a rheostat configuration providing a large series resistance to limit current thru that stage, ultimately controlling the output power. I used a piece of 174 coax to make the run to the front panel. Do not remove R319 since you will still need the upper limit control from the original circuit.

With this mod in place I can turn the output power completely off (ultimate QRP?) on 20, 30 and 40 mtrs. On 80 mtrs the power can be reduced to 100 mW. Full power is also available at the other end of the control.

After talking with Dick at OHR, I found out that you folks with the very latest T/R board (rev b?) can't do this mod since your pre-driver stage is not the same. I tried one other mod that worked equally well that may work for the rev b's although it is hard to explain here. I'll try... at the base of the driver Q301 I tacked a .1uF cap in series with a 1n4148 diode to ground. From the junction of the cap and diode I went through a 2.2uh choke and a 100 ohm resistor to a 10k pot

wired to 12 vdc (transmit). The idea here is to attenuate the signal using a forward biased diode controlled by the amount of current supplied to the diode. The choke is used to keep the RF there at the circuit and allow the DC to get to the diode. This mod worked as well as the first one I described but required about 80 ma more during transmit and a few more parts.

I have not checked the spectrum results of either mod. If someone does, please let me know if there is any impact from either.

73, Randy WJ4P

From owner-qrp-1@lehigh.edu Wed Apr 17 23:11:49 1996
From: "Lau, Zack, KH6CP" <zlau@arrl.org>
Subject: [7251] Silver Solder
Message-ID: <m0u9YKS-000RBIC@mgate.arrl.org>

I have a roll of SN62 tin/lead/silver solder for chip caps. Back in the "old" days, you needed special solder to keep from leaching the silver off the capacitors, rendering them unsolderable. With most modern parts, ordinary 60/40 solder works just fine.

Zack KH6CP/1.

From owner-qrp-1@lehigh.edu Wed Apr 17 23:11:49 1996
From: af852@rgfn.epcc.edu (William R Colbert)
Subject: [7270] solar stuff
Message-ID: <9604172023.AA07886@rgfn.epcc.Edu>

For those that are interested in Sunelco - their web site is located at <http://www.sunelco.com> Nice page, some good info, their catalog is outstanding, IMHO.

For Jay (WB6AAM) and others for solar prop info:

try: <http://www.sel.noaa.gov>

<http://solar.uleth.ca/solar/www/hourly.html>

<http://www.ips.gov.au/rwc> (prop info from Australia, with solar pictures - good site, with A/K indices from their prospective.

I also show <http://solar.uleth.ca/solar> Not sure what the dif

is from the above listing - maybe I have it listed twice. Anyway,
good, helpful sites with lots of information, including charts, graphs, etc.
72/73 Ray

--

Ray Colbert, W5XE/V31XE, El Paso, Tx

From owner-qrp-l@lehigh.edu Wed Apr 17 23:11:49 1996
From: Dave Fifield <fifield@lan.nsc.com>
Subject: [7276] Soldering Temperature
Message-ID: <31758F76.59C9@lan.nsc.com>

Hombrewbuilders: Here's a piece of information that all you Weller
temperature controlled soldering iron (TCP) owners may not be aware of.

The number on the bottom of the Weller TCP bits (stamped into the
magnet) is the temperature of the bit in hundreds of degrees fahrenheit.
So, for example, a bit that has the number 7 on it will reach a tip
temperature of 700 deg.F.

When soldering very small, easily damaged components (surface mount for
instance) use a no. 6 bit. For general work and ordinary through hole
components, use a no. 7 bit. Only rarely will you need to use a no. 8
bit (I don't even possess one). Remember too, that depending on the
solder mix you are using, you will need to "adjust" the bit temperature
- some solders (especially leadless ones) only melt at high
temperatures.

Hope this helps someone.

Dave Fifield

```
-----  
| LAN Applications Manager          | KE6ZBZ      |  
| National Semiconductor Corp      | QRP-L #92   |  
| Moving and Shaping Information   | Norcal #1486 |  
-----
```

From owner-qrp-l@lehigh.edu Wed Apr 17 23:11:49 1996
From: Doug Hendricks <ki6ds@telis.org>
Subject: [7236] St. Louis Tuner Manual Error
Message-ID: <3174645E.3FDC@telis.org>

Dave Gauding, NF0R who was on the design team for the St. Louis tuner

has discovered an error in the St. Louis Tuner Manual. The balun on the back panel should be wound with 12 turns, not 10 as specified in the manual. That was my error and I apologize for any inconvenience and all that stuff. Dave says it makes a big difference, so don't forget to change it. Still shipping 12 per day. Has anyone finished one yet?
72, Doug

From owner-qrp-l@lehigh.edu Wed Apr 17 23:11:49 1996
From: Bill Acito 17-Apr-1996 0952 <acito@asdg.ENET.dec.com>
Subject: [7249] Update: Line Noise
Message-ID: <9604171359.AA08282@us1rmc.bb.dec.com>

Spoke to Mass Electric customer service on Friday looking for an update; she told me she would get back to me.

When I got home from work I found a message on my answering machine. It appears there is a known 'problem' with a substation located a 1/4 mile down the road at the large industrial factory.

An overhaul/replacement of transformers and other assorted components was scheduled for yesterday. I'm going to monitor the noise this week, and if no improvement call them at the end of the week to see if the update was done. The saga continues.

b

btw, for those of you who receive '72', Dennis' spell checker or the download from the mail message really did a number on my article. If anyone wants a copy 'sans' typo's, send me mail.

. - I own my own words -
Bill Acito
acito@asdg.enet.dec.com
|d|i|g|i|t|a|l| Digital Equipment Corporation Hudson, MA

KC1GS ... qrp-ne ... qrp-l ... qrp-arci ... norcal ... arrl life ...

Listen for me on all weekend and weekday lunchtime

(1630 - 1730Z) passes of AMRAD-OSCAR 27, portable FN42

From owner-qrp-1@lehigh.edu Wed Apr 17 23:11:49 1996
From: PAT DOYLE <DOYLEPS@lakehurst.navy.mil>
Subject: [7242] US Priority Mail -Reply
Message-ID: <s174a0a1.001@LAKEHURST.NAVY.MIL>

It has been a long time since the 2 pounds for \$2 has been in effect. Prior to the last postage increase, it was \$2.90. The biggest advantage of Priority mail is that it is \$3 for as much as you can stuff in the cardboard or plastic mailer.

I am the Contest Chairman for our club and have found it convenient to use Priority mail for mailing contest logs. It saves me the hassle of having the package weighed. Unless there are only two or three logs, it is cost-effective.

KA2GSL

From owner-qrp-1@lehigh.edu Wed Apr 17 23:11:49 1996
From: Ken Newman N2CQ <103464.1355@CompuServe.COM>
Subject: [7246] Vertical Beverage Antenna in "72"
Message-ID: <960417135549_103464.1355_IHI69-2@CompuServe.COM>

Joe - N2CX:

Oh nostalgia! I was delighted to read your piece on the beer can vertical on "72" April. I also made one of those according to W2JTJ's 1955 QST article. I couldn't purchase the needed material (beer), but did find enough helpers to make the purchases and empty the unneeded fluid. I made the 32' vertical mast the same you did, soldering cans, end to end. Naturally, the first erection (antenna) did not go well, the same way you reported, with the mast in pieces. After repairing and enlisting more reliable guy tenders, the full 32' mast went vertical. It worked for many months both on 40 and 15 with great DX..

I would be glad to provide the needed material to help someone on a 160 meter "Beverage Vertical Antenna" that is an aluminum welder. ;-)

de Ken - N2CQ (Formerly W0RNH during above ant construction)
Woodbury, NJ FM-29-jt

From owner-qrp-1@lehigh.edu Wed Apr 17 23:11:49 1996
From: Mike Cloud <cloudm@mhsgate.meth-mem.org>
Subject: [7259] X
Message-ID: <C3E6743101172C16@mhsgate.meth-mem.org>

Anyone have any experience/thoughts regarding taking a Index Labs QRP+ mobile? In other words, wiring it into the truck 12v system and running to set of Hustlers for 14,20,40,80 meters. Also, I have a friend looking for specifically a finished, unfinished, or still kit NorCal, and/or just about any kit built qrp rig.

tnxs.... de Mike, KR4IT..

From owner-qrp-1@lehigh.edu Wed Apr 17 23:11:49 1996
From: Alan Kaul <kaul@netcom.com>
Subject: [7239] Re: 40-9er mod, barber's shaver and carbon stones
Message-ID: <Pine.3.89.9604162342.A22907-01000000@netcom7>

Ori, et al:

Same results, different mod. I swapped out RFC1 in my rig with a torroid of approx 2.8 uH value which 1) enabled me to get a nice peak using the variable capacitor, and 2) enabled me to lose the SW station in Alabama that was crudding up my front end. I presume my switch to a torroid coil had about the same effect as your lowering the Q of the circuit with an 8 ohm series resistor. NOW THE REAL QUESTION: Does changing the Q of the parallel input circuit also have an impact on harmonic output? I'm still waiting to get into the lab to retest the 40-9er, now that I have replaced the fixed inductance choke at RFC1 with a torroid.

The Q has changed, but has the 2nd harmonic radiation? Could that help explain how various 40-9er models built and tested by different people are reported to vary by as much as 10dB in 14mHz energy measurements?

Also BTW - I have done the audio mods and the gain is quite improved. I replaced RFC4 with 10T on a FT-37-43 as suggested by Wayne, N6KR, and there does not seem to be a noticeable difference on my rig. Also, I installed the electrolytic on the downstream side of the voltage

regulator and bypassed both the input and output of the 7805 close to the chip with no perceptible difference. I'm ordering parts for the 80M version (using a color burst crystal) and I'm planning to make the C/L ratio significantly higher in the receiver input stage (I'll use about 900 pf of total capacitance and around 2.4 uH of inductance at the input circuit and as Larry, W1HUE, mentioned in one of his posts, I think I'm going to use link (transformer) input from R1 instead of C1). I'm also planning on not putting the 80M version in a Sucrets/Altoids box, so I can use a 'real' variable capacitor (and a vernier dial!) at C6. Just by tack-soldering added C in parallel with C6 on the 40M version, I have been able to significant change the frequency by another 4-5 kHz downward. So, I'll probably make C6 about 80-to-100 pf in the 80M version, and make RFC6 a torroid coil also. And may switch in additional capacitance. I have the 'version A' board, and when Doug laid it out, he left a ''few'' extra holes in the C6-RFC6 bus which will make an outboard variable cap easy. Also, I'll reverse the position of RFC6 and C6, so the inductance is between the crystal and the cap, and the cap will connect directly to ground. Also, FYI, I'm using the audio monitor from my Curtis Keyer (using a double-jack to single plug for the headphones) which is easier to install than building in a monitor circuit.

Has anyone figured out a way to pull the transmit frequency 500-700kHz lower?

73/72 de alan

[<Alan Kaul, W6RCL>] kaul@netcom.com

From owner-qrp-1@lehigh.edu Wed Apr 17 23:11:49 1996
From: Grover Cleveland <groverc@gvgadg.gvg.tek.com>
Subject: [7268] Re: 40-9er Mods
Message-ID: <31753BD0.5398@gvgadg.gvg.tek.com>

I cleverly crashed my computer yesterday and lost all the 49er mods.
Would some kind soul repost or mail them to me?

mni tnx es .73

Grover WT6P

From owner-qrp-1@lehigh.edu Wed Apr 17 23:11:49 1996
From: Wayne Barnhart <wayneb@on-ramp.ior.com>
Subject: [7279] Re: 40-9er Mods
Message-ID: <Pine.LNX.3.91.960417175332.3596A-100000@on-ramp.ior.com>

> difference. I added the 180pf cap and did the audio feedback mod. The
I must have missed the 180pf note. Where did you put it?

Wayne WB7WHI
Spokane, Wa.

From owner-qrp-1@lehigh.edu Wed Apr 17 23:11:49 1996
From: prvalko <prvalko@oakland.edu>
Subject: [7235] Re: 49er On The Air (fwd)
Message-ID: <Pine.OSF.3.91.960416230924.9307B-100000@saturn.acs.oakland.edu>

On Tue, 16 Apr 1996, Warren E. Lewis wrote:

> I tried calling you right after you worked AA1LL.
> Your 350 mw sounded good about a 449 here in good ole
> NC. I'll have to remember about the offset next before I
> try to call you. I got a good laugh when he asked you to
> QSY!! Tee hee hee

Oh GOSH I'm sorry! I ran up the stairs and almost forgot to unplug the
Duracell. That was a hoot regarding the QSY - you have Nooooo idea how
hard it was to copy a 100Hz tone with all the BC interference. Paul was
WAY loud here, I'm sure you copied my 599 to him.

For everyone else, if you have Netscape, you can see my 49er
on my homepage at:

<http://www.acs.oakland.edu/~prvalko>

Click on the word RADIO under Interests.

73! =paul= wb8zjl

From owner-qrp-1@lehigh.edu Wed Apr 17 23:11:49 1996
From: "Dana H. Myers" <myers@bigboy.West.Sun.COM>
Subject: [7275] Re: Active Tuners
Message-ID: <Roam.3.0.829782430.11591.myers@bigboy>

> I was reading some information on active filters, and on variactor diodes
> and I started wondering if some of the same ideas could be used to create
> an active tuner. My idea is that the tuner could compare the forward and
> reflected voltages and change the capacitance of the variactor diode. Is
> there an equivalent to the variactor for inductance?

One way of creating a voltage-variable inductor is to connect a quarter-wave transformer to a varactor - the impedance is inverted, and you can end up with a very good inductive reactance, though not over a wide frequency range.

The biggest problem you're going to have with varactors is that they're still diodes. They still have a reverse breakdown voltage and they can still be forward biased. Using two varactors "back-to-back" can prevent forward biasing (often used in VCOs) but you still have the limited breakdown voltage.

At all but the lowest power levels, the kinds of voltages that can be developed in a tuner will probably surprise you. There's a reason why large air-variable and vacuum-variable capacitors are used in matching circuits...

From owner-qrp-1@lehigh.edu Wed Apr 17 23:11:49 1996
From: Ken Newman N2CQ <103464.1355@compuserve.com>
Subject: [7245] Re: ARCI Qso Party
Message-ID: <960417135557_103464.1355_IHI69-4@CompuServe.COM>

Joe and group;

I plan to send my log E-Mail to Cam even though he has not said this would be acceptable. I have sent logs E-Mail to ARRL and others which is no problem. The below log with a summary sheet should be ok. May not really need a dupe sheet that I am including. Cam sent us a post to tell us that there was a team against us. The Paddle Pounders N4ROA is it. There is another that is running Multi-Multi that is in a category by itself. Would you care to give a name for our team that would give proper status against The Paddle Pounders competition? ;-)

72/73 de Ken - N2CQ FM-29-jt

Hope you find a log via E-Mail ok, Cam. Let me know if You need paper. KN

Spring ARCI QRP QSO Party

Call used: N2CQ

Location: NJ

Entry Class: Single Op, All Band

Band	QSOs	Pts	QTH	DX
80	10	44	7	0
40	46	161	16	0
20	10	44	7	0
15	0	0	0	0
10	0	0	0	0

Total 66 249 30* 0*

* - Counted all bands

Score: 249 x 30 x 7 = 52,290

Claimed Score: 52,290

Power Output: 5

[TS-850s, Tribander, Zepp, MFJ-1278 TNC, RTTY by WF1B Logger]

Club Participation: NJ QRP Club

"I have observed all competition rules as well as all regulations established for amateur radio in my country. My report is correct and true to the best of my knowledge. I agree to be bound by the decisions of the Awards Committee."

Date 04/15/96 Signature: Ken Newman (Sig) Call: N2CQ

Very poor condx in general. Glad to see all the REAL sports showed up!

(Renewal in the mail)

Ken Newman #7975

81 Holly Drive

Woodbury, NJ 08096

Call: N2CQ QTH: NJ Class: Single Op, All Band Spring ARCI QP (CW)

Band	Date	Time	Call	RST	QTH	Ser#	RST	QTH	Ser#	Cntry	Cty	QTH	Pt
40	960413	1435	WB9PXR	579	NJ	0001	559	IN	8931	W		Q	5
40	960413	1601	AA8UG	579	NJ	0002	559	MI	3	W	W	Q	2
40	960413	1609	WI6I/9	579	NJ	0003	339	IL	5636	W		Q	5
40	960413	1611	VA3SB	579	NJ	0004	599	ON	7903	VE		Q	5
40	960413	1622	W8MVN	579	NJ	0005	579	OH	6572	W		Q	5
40	960413	1625	WA3PAK	579	NJ	0006	599	OH	5	W	w		2
40	960413	1627	AE4IC	579	NJ	0007	559	NC	8922	W		Q	5
40	960413	1640	N4IY	579	NJ	0008	439	IN	0005	W			5
40	960413	1655	K9VCM	579	NJ	0009	579	IN	0076	W			5
40	960413	1712	W9NIP	579	NJ	0010	579	MI	7354	W			5
40	960413	1732	K2HPV	579	NJ	0011	599	NJ	6431	W		Q	5
40	960413	1742	WA8YRS	579	NJ	0012	569	OH	2	W	W		2
40	960413	1744	AA4S	579	NJ	0013	599	NC	5	W	W		2
40	960413	1751	AA8RJ	579	NJ	0014	599	OH	8877	W			5
40	960413	1754	AA2YO	579	NJ	0015	599	NJ	5	W	W		2
40	960413	1800	KC4XS	579	NJ	0016	599	KY	1	W	W	Q	2
40	960413	1805	VE3EID	579	NJ	0017	579	ONT	0100	VE			2
40	960413	1817	AA1KF	579	NJ	0018	569	ME	4	W	W	Q	2
40	960413	1824	KB8GAE	579	NJ	0019	579	OH	8343	W			5
40	960413	1826	W4YGE	579	NJ	0020	559	TN	0100	W		Q	2
40	960413	1847	VE2DEQ	579	NJ	0021	569	PQ	5	W	VE	Q	2
20	960413	1859	VE6XT	579	NJ	0022	579	AB	7706	VE		Q	5
20	960413	1910	VE6GK	579	NJ	0023	559	AB	7650	VE			5
20	960413	1916	W6ZH	579	NJ	0024	549	CA	6560	W		Q	5
20	960414	1453	N4BP	579	NJ	0025	599	FL	3412	W		Q	5
20	960414	1458	W5VBO	579	NJ	0026	339	AZ	3623	W		Q	5
20	960414	1507	W0TID	579	NJ	0027	559	KS	5986	W		Q	5
20	960414	1510	KB5DQ	579	NJ	0028	579	NM	4619	W		Q	5
20	960414	1512	W6LFB	579	NJ	0029	449	TX	3	W	W	Q	2
20	960414	1515	K5HPJ	579	NJ	0030	559	TX	3575	W			5
20	960414	1526	K3ETS/5	579	NJ	0031	559	TX	3	W	W		2
40	960414	1544	WA2UAX	579	NJ	0032	449	NC	8911	W			5
40	960414	1547	N4ROA	579	NJ	0033	559	VA	7401	W		Q	5
40	960414	1558	AC8W	579	NJ	0034	579	MI	5839	W			5
40	960414	1601	AA8LF	579	NJ	0035	559	MI	5	W	W		2
40	960414	1831	N8CQA	579	NJ	0036	229	MI	4233	W			5
40	960414	1844	N8LBI	579	NJ	0037	579	OH	5	W	W		2

40	960414	1846	W9MSE	579	NJ	0038	559	WI	8722	W	Q	5
40	960414	1855	W1ZNM	579	NJ	0039	559	VT	1399	W	Q	5
40	960414	1859	KT4KC	579	NJ	0040	579	NC	4	W	W	2
40	960414	1900	VE3SP	579	NJ	0041	579	ONT	10	W	VE	2
40	960414	1902	WA8RJF	579	NJ	0042	559	OH	2929	W		5
40	960414	1904	N9XOH	579	NJ	0043	559	WI	9	W	W	2
40	960414	1906	AA1MI	579	NJ	0044	579	NH	5	W	W	Q 2
40	960414	1910	VD2AWR	579	NJ	0045	569	PQ	5	W	VE	2
40	960414	1919	WR4S	579	NJ	0046	559	NC	4281	W		5
40	960414	1924	KE4LIA	579	NJ	0047	599	KY	3	W	W	2
40	960414	1925	W8AC	579	NJ	0048	579	OH	4510	W		5
40	960414	1928	W8DL	579	NJ	0049	559	WV	5	W	W	Q 2
40	960414	1936	AA8GQ	579	NJ	0050	559	OH	100W	W		2

Page 1												
0 23 184												

Call: N2CQ QTH: NJ Class: Single Op, All Band Spring ARCI QP (CW)

Band	Date	Time	Call	RST	QTH	Ser#	RST	QTH	Ser#	Cntry	Cty	QTH	Pt
40	960414	1943	WB0IQK/8	579	NJ	0051	559	OH	7280	W			5
40	960414	1948	W8GND	579	NJ	0052	579	MI	2	W	W		2
40	960414	1951	KB8LFQ	579	NJ	0053	579	MI	0.1W	W			2
40	960414	1957	NT9T	579	NJ	0054	599	IN	5	W	W		2
40	960414	1958	VE2ABO	579	NJ	0055	589	PQ	6017	VE			5
40	960414	2011	N2CX	579	NJ	0056	569	NJ	0169	W			5
80	960414	2318	W4XD	579	NJ	0057	579	VA	5237	W		Q	5
80	960414	2321	WA2BQI	579	NJ	0058	599	NY	5	W	W	Q	2
80	960414	2327	NZ8J	579	NJ	0059	559	OH	4099	W		Q	5
80	960414	2334	N2MNN	579	NJ	0060	589	NJ	8351	W		Q	5
80	960414	2337	K2LMJ	579	NJ	0061	579	NY	6397	W			5
80	960414	2338	N1QY	579	NJ	0062	569	MA	5	W	W	Q	2
80	960414	2340	WA3YON	579	NJ	0063	579	PA	8850	W		Q	5
80	960414	2347	N2TWW	579	NJ	0064	569	NY	8051	W			5
80	960414	2353	KF8EEK	579	NJ	0065	579	OH	4567	W			5
80	960414	2356	KN1H	579	NJ	0066	559	NH	4937	W		Q	5

Page 2													
0 7 65													

80 Meter DUPE SHEET for N2CQ

Page 1

K2LMJ
KF8EEK
KN1H
N1QY
N2MNN

N2TWW
NZ8J
W4XD
WA2BQI
WA3YON

Total this page 10

40 Meter DUPE SHEET for N2CQ

Page 2

AA1KF
AA1MI
AA2YO
AA4S
AA8GQ
AA8LF
AA8RJ
AA8UG
AC8W
AE4IC
K2HPV
K9VCM
KB8GAE
KB8LFQ
KC4XS
KE4LIA
KT4KC
N2CX
N4IY
N4ROA
N8CQA
N8LBI
N9XOH
NT9T
VA3SB
VD2AWR
VE2ABO
VE2DEQ
VE3EID
VE3SP
W1ZNM
W4YGE
W8AC
W8DL
W8GND
W8MVN
W9MSE
W9NIP

WA2UAX
WA3PAK
WA8RJF
WA8YRS
WB0IQK/8
WB9PXR
WI6I/9
WR4S

Total this page 46

20 Meter DUPE SHEET for N2CQ

Page 3

K3ETS/5
K5HPJ
KB5DQ
N4BP
VE6GK
VE6XT
W0TID
W5VBO
W6LFB
W6ZH

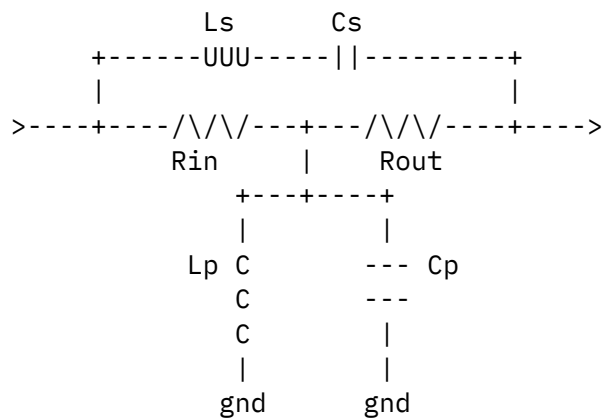
Total this page 10

<END>

From owner-qrp-1@lehigh.edu Wed Apr 17 23:11:49 1996
From: "N100Q Tom R. @ MR01 17-Apr-1996 1041" <randolph@est.ENABLE.dec.com>
Subject: [7258] re: Diplexers?
Message-ID: <9604171608.AA07498@us4rnc.pko.dec.com>

I ran some SPICE simulations on this thing. I calculated it for 9.0 MHz, 50 ohms input/output impedance, with all Xl Xc set to 50 ohms also. I put 7500 ohm resistors across the inductors to simulate a Q of 150 (a lowish value for a typical toroid) for those.

The 3dB points are 5.6 and 14.5 MHz, so it's pretty wide. In my application, some of the ~5 MHz image freq would no doubt leak through to the following amp stage. Input impedance is 50 +/- 3 ohms from 0 to 30 MHz, figuring about 5% variation in components.



According to SPICE, with a 50 ohm resistive load, Rout absorbs only a miniscule amount of the input power (-45dBinput), and could probably be left out unless some really ugly circuit follows the diplexer. That would make this diplexer similar to the one I designed based on Butterworth bandpass filters from the Handbook. That one is:

```

Rin    51 ohms      Rout not used
Lp     0.30 uH
Cp     1000 pF
Ls     2.9 uH
Cs     110 pF

```

Mine has 3 dB points at 7.5 and 10.6 MHz, and input impedance is 50 ohms +/- 10 ohms, using the same component variation. The original circuit above is less sensitive to the this. Adding Rout to my circuit makes little difference as far as this sensitivity, FWIW.

```

=====
Tom Randolph  N100Q  NE-QRP 419  QRP-L 87  ARRL      randolph@est.enet.dec.com
=====

```

```

From owner-qrp-l@lehigh.edu Wed Apr 17 23:11:49 1996
From: "Dana H. Myers" <myers@bigboy.West.Sun.COM>
Subject: [7260] re: Diplexers?
Message-ID: <Roam.3.0.829763117.18448.myers@bigboy>

```

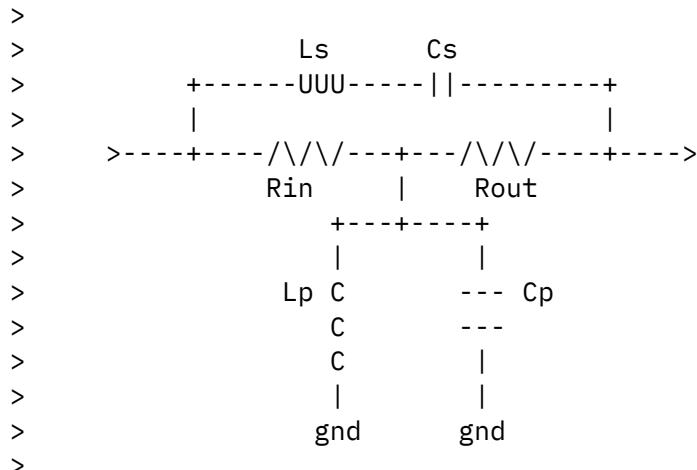
Tom Randolph wrote:

```

> I ran some SPICE simulations on this thing. I calculated it for 9.0 MHz,
> 50 ohms input/output impedance, with all XL XC set to 50 ohms also. I put
> 7500 ohm resistors across the inductors to simulate a Q of 150 (a lowish
> value for a typical toroid) for those.
>
>

```

> The 3dB points are 5.6 and 14.5 MHz, so it's pretty wide. In my application,
 > some of the ~5 MHz image freq would no doubt leak through to the following
 > amp stage. Input impedance is 50 +/- 3 ohms from 0 to 30 MHz, figuring about
 > 5% variation in components.



> According to SPICE, with a 50 ohm resistive load, Rout absorbs only a
 > miniscule amount of the input power (-45dBinput), and could probably be left
 > out unless some really ugly circuit follows the diplexer.

I wouldn't leave it out under any circumstances. It significantly improves the output return loss outside the diplexer bandpass, which may be important in terminating the input of the following stage (!) for stability sake.

Dana
 Dana.Myers@West.Sun.Com

From owner-qrp-l@lehigh.edu Wed Apr 17 23:11:49 1996
 From: Paul Harden <pharden@aoc.nrao.edu>
 Subject: [7252] Re: help with mid 20's wpm plateau
 Message-ID: <199604171439.IAA25297@zia.aoc.nrao.edu>

Paul,
 The best thing you can do to increase your code speed is PUT DOWN that pencil ... don't write down the characters on paper ... but instead copy the code IN YOUR HEAD.

Writing down what you hear requires your brain to decode the morse into a letter or word THEN 1) find a lookup table in your brain called "morse to finger wiggle," 2) send finger wiggle command down nerve circuits, 3) let finger wiggle actually wiggle, 4) eyes capture image of character just created on paper, 5) eyes send image to brain, 6) the brain's image processing compared character image to finger wiggle command to ensure right character was written (and if not,

GOTO 3459284700 routine), 7) ready for next CW character ...
EEEEK! It's already half over! Dang ... missed it!

Well, you get the idea. Writin down each morse character just gives your brain and motor circuits much more to do than needed. Learn to just copy in your head. It's hard at first. Spend some time listening to 40M CW (or whatever) just "copying the mail" ... listening to the QSO's in progress. No pressure to get it right. After the first round, do you know what the guys name is? His QTH? The RST? How about the other station's info? And without jotting down a thing. Do this for several evenings, and your code speed will increase in a couple of weeks, not 6-8 months.

After a little practice, then try it out on the air. Just copy in your head ... however, fill in the log book DIRECTLY as the info comes along. After that, just jot a word or two about the conversation ... then when it's your turn, you have a key word or two to allow you to respond. Other than that, don't touch that pencil.

GL, Paul NA5N

(The above "copy in your head" goes to pieces in a contest though, at least for me. If I don't write down the calls I hear, it turns to vapor by the time I get my fingers on the paddles -hi).

From owner-qrp-l@lehigh.edu Wed Apr 17 23:11:49 1996
From: Larry East <LVE1@inel.gov>
Subject: [7271] Re: LM380 hum
Message-ID: <2.2.16.19960417203319.214f7728@134.20.32.17>

I tried to send this directly to "Gary R. Hanson" <gary-r-hanson@uiowa.edu> in response to email he sent me, but the local network router had a problem with the TCP/IP address. (Extra period? That's what was in the message header...) Anyway, it may be of interest to others as well.

At 07:26 PM 4/17/96, Gary R. Hanson wrote:

>Larry,

>

>Tried adding a 10uF cap from pin 8 on LM380 to reduce power supply hum
>without success...still have some hum, not bad, but noticeable. I did
>the mod to increase audio gain suggested by Paul NA5N and don't know why
>that would cancel the effects of the 10uF cap. I wonder if you meant to
>bypass pin 7 (V+) pin on the LM380 instead of pin 8? I don't have a
>tech sheet on the chip and the schematic showed no other connections to
>pin 8 of the LM380.

>

My original post assumed the 8-pin version of the LM380 (LM380-8)-- if you are using the 14 pin version, then it is a different pin that needs to be bypassed (don't have the pinouts here at work). The +V line (which connects to pin 7) should be bypassed with a large cap -- at least 100uF. The original 40-9er schematic showed 220uF, which is what I believe I am using. If you do NOT have such a bypass installed, then you will probably be getting some power supply hum even with a 10uF cap bypassing pin 8 (but it should be worse with no bypass on pin 8). If you do have +V bypassed with 200 to 300uF and are still getting hum, try a larger cap on pin 8 -- and/or look for ground loops. (Ground loops are a big problem with "DC" receivers -- for example, when I connect my external keyer to my 40-9er, I get some hum that is not otherwise there.)

Pin 8 (of the LM380-8) is intended solely for a bypass cap to decouple the high gain input stage of the IC from the power supply. My National IC data book makes some mention of this, but it is not stressed; in one place it shows a 4.7uF cap connected from this pin to ground, but in most of the other examples it shows it floating, or with a "dotted line" cap with no value indicated. I have seen many designs (in various kits and even my QRP+) in which this (or the equivalent pin for the LM380-14 and LM386) pin is not bypassed (or too small a cap is used), and in every case properly bypassing it decreased power supply hum (and/or noise) sensitivity.

Increasing the gain of the LM380 will indeed increase the 40-9er's sensitivity to power supply hum and ground loop induced noise/hum problems.

72, Larry W1HUE

From owner-qrp-1@lehigh.edu Wed Apr 17 23:11:49 1996
From: Monte Stark <ku7y@sage.dri.edu>
Subject: [7262] Re: Silver Solder
Message-ID: <Pine.SUN.3.90.960417105414.19757C-1000000@vortex.sage.dri.edu>

Hi Zack & all,

I remember back a few years ago when I was working for a Motorola shop in Boise, we changed a final transistor in a trunking system.

After that, it would break into oscilation and do all the "normal" unstable things. After lots of talk with Motorola, it came out that we had used regular solder each time we replaced that transistor.

Motorola sent us some silver solder and instructions to

clean off all the old solder and use what they sent. Bingo,
back to being stable again!

I have always thought of that as meaning we got "better" RF
connections with the silver solder.

Not really qrp, but I think it's interesting. The higher in
frequency you go, the more you learn!

cul,

73, Ron,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@sage.dri.edu.....Washoe Lake, Nevada....
....QRP-L #17....ARRL....NorCal #330.....NRA LIFE.....

From owner-qrp-l@lehigh.edu Wed Apr 17 23:11:49 1996
From: JEVERHART@cayman.vf.mmc.com
Subject: [7254] RE: Solar Panels
Message-ID: <960417101041.2420869d@carib.vf.mmc.com>

Bill, you wrote, in part:

>Hi, Gang
>
>After seeing Jerry Flanders' posting, and subsequent contact with him,
>I did some www searching for solar cell information. I found a good
>description of Photovoltaic Cell operation at:
>
>http://huizen.dds.nl/~hasse_m/2.htm
>
>It describes how a cell is constructed, and the cell electrical
>characteristics.

This is a test, right?

I pulled up that page and it's in Dutch! don't even understand enough to
navigate it :-(. Is there an ugly-American-English only version?

72/73,

Joe E., N2CX

work: jeverhart@cayman.vf.mmc.com

home: n2cx@voicenet.com

From owner-qrp-1@lehigh.edu Wed Apr 17 23:11:49 1996
From: launerb@crl.com (William H. Launer)
Subject: [7269] RE: Solar Panels
Message-ID: <v01520d01ad9abc8fd0a7@[192.0.2.1]>

Joe and the Gang,

To get to the Solar Cell info, use the whole address:

http://huizen.dds.nl/~hasse_m/2.htm

I just opened the location (using NetScape), and it came up in English. I checked the home page at "<http://huizen.dds.nl>" and it's in Dutch. I can't navigate in Dutch, either!

72/73, Bill wb0cld

Bill Launer
St. Charles, MO
launerb@crl.com
wb0cld@wb0cld.ampr.org [44.46.66.25]
qrp-1 #279 qrp arc1 #3551

From owner-qrp-1@lehigh.edu Wed Apr 17 23:11:49 1996
From: "Brian.Buydens@usask.ca" <buydens@duke.usask.ca>
Subject: [7273] RE: Solar Panels
Message-ID: <Pine.OSF.3.91.960417160623.21996A-100000@duke.usask.ca>

On Wed, 17 Apr 1996, William H. Launer wrote:

> Joe and the Gang,
>
> To get to the Solar Cell info, use the whole address:
>
> http://huizen.dds.nl/~hasse_m/2.htm
>
> I just opened the location (using NetScape), and it came up in English. I

> checked the home page at "http://huizen.dds.nl" and it's in Dutch. I can't
> navigate in Dutch, either!

If you do load "http://huizen.dds.nl" you might try clicking on the button

ENG
LISH

; -)

BTW "De Digitale Stad Amsterdam" means "the digital city Amsterdam".

Bezoek de stad als bewonder - "view of the city as a resident" (password
protected)

Bezoek de stad als tourist - "view of the city as a tourist"
(when you click on it there is also a place to select English).

Hope this helps.

Brian.

>
> 72/73, Bill wb0cld
>
>
>
>
>
> Bill Launer
> St. Charles, MO
> launerb@crl.com
> wb0cld@wb0cld.ampr.org [44.46.66.25]
> qrp-1 #279 qrp arc1 #3551
>
>
>
>

```
+-----+
| Brian Buydens, Computing Services, University of Saskatchewan |
| email: Brian.Buydens@usask.ca |
| VE5RDV |
+-----+
| Albert Einstein, when asked to describe radio, replied: "You see, wire |
| telegraph is a kind of a very, very long cat. You pull his tail in New |
| York and his head is meowing in Los Angeles. Do you understand this? |
| And radio operates exactly the same way: you send signals here, they |
```

| receive them there. The only difference is that there is no cat." |
+-----+

From owner-qrp-1@lehigh.edu Wed Apr 17 23:11:49 1996
From: bkassel@enet.net (Brian Kassel)
Subject: [7256] Re: Sunday static on 30m?
Message-ID: <199604171559.IAA00969@maple.enet.net>

At 07:19 PM 4/16/96 -0500, Bill Howell wrote:

>I was using my Explorer II in the hill country near Austin last Sunday.
>
>No houses or power lines around. Set up on picnic table, running off of
>a gell cell. I was getting gobs of qrn, which I don't remember ever
>getting when using the rig from the house.

I had the very same problem here in Phoenix. Although I was in the
test as single band entry on 20M, I checked 30M from time to time
on another rig when things got slow on 20. We also had fairly high
winds for this area, but my antenna is at D.C. ground, so I have
to discount the "Static Build-up" theory here.

30M is my favorite band, so I listen a lot there. Lately I've
noticed this QRN every few days. It never seems to be there
at night, after the band closes. I thought for a while that it might
be locally generated, and MAYBE it would just go away on it's own,
(Blind faith, I know!).

Could this be some sort of weird solar/outerspace/stardust
thingy? Black Helicopters? ;>)

BTW, it wasn't there yesterday.

Brian W5VB0
AZ ScQRPions
QRP is *NOT* for sissies!

From owner-qrp-1@lehigh.edu Wed Apr 17 23:11:49 1996
From: Steve Silverwood <kb6ojs@earthlink.net>
Subject: [7247] Re: US Priority Mail
Message-ID: <1.5.4b12.32.19960417135928.0069dd60@earthlink.net>

FYI, Priority Mail's two-day delivery depends not only on the destination

post office but on the originating post office too. If you're in East Podunk, it takes longer to get the PM package to the local hub than it does if you're in a suburb of Chicago, for example. Priority Mail is still a pretty valid option for most of us in metro areas.

And no, I don't work for the post office. ;-)

At 18:07 04/16/96 -0400, Steven Pituch wrote:

>I learned something new about "Priority" mail last Saturday. I needed to
>mail some papers to someone who lives about 30 miles away in the NYC
>metropolitan area. When I got to the Post Office I found out the 2 lbs for
>\$2 was now \$3. In addition, when I asked the person behind the counter if
>the package would get delivered by Tuesday (4 days), she said that it was
>not guaranteed. For that, she said, you must use "Express" mail which costs
>over 10 bucks. I'd rather wait the extra few days for my St. Louis tuner.

>

>I thank all the NorCal people involved in the project for your unselfish
>efforts. It is really appreciated!

>

>Steve, N2MNN

>

>

>

>

-- //Steve//

Computer Associates CompuServe: 76703,3035
Fax: 714/557-1675 Internet: kb6ojs@earthlink.net
Phone: 714/513-7236 America Online: KB60JS
Homepage: <http://ourworld.compuserve.com/homepages/KB60JS>
Personal homepage: <http://www.earthlink.net/~kb6ojs>

From owner-qrp-1@lehigh.edu Wed Apr 17 23:11:49 1996

From: Steve Silverwood <kb6ojs@earthlink.net>

Subject: [7248] Re: US Priority Mail

Message-ID: <1.5.4b12.32.19960417135931.006a16c8@earthlink.net>

At 21:10 04/16/96 -0500, Alvin G. Gann wrote:

[snip]

>Express mail is the USPS' attempt to compete with Fed-Ex, et. al. and may
>actually go by carrier pigeon rather than snail.

I've never had any difficulty with getting Express Mail packages delivered on time. In fact, I had gone from NY to CA for Christmas in 1994 and forgot

to bring with me the doohickey to go between my PCMCIA modem and the phone line (not sure what the technical term is <g>) and had to have the one on my desk at home sent to me via Express Mail. It was delivered on Christmas Morning, exactly one day after being sent by our housesitter. Tell me FedEx will do THAT for ten bucks!

-- //Steve//

Computer Associates	CompuServe: 76703,3035
Fax: 714/557-1675	Internet: kb6ojs@earthlink.net
Phone: 714/513-7236	America Online: KB60JS
Homepage: http://ourworld.compuserve.com/homepages/KB60JS	
Personal homepage: http://www.earthlink.net/~kb6ojs	